



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/717,469

11/21/2003

Hoescong Ha

Q76058

8122

23373 7590 12/22/2006  
SUGHRUE MION, PLLC  
2100 PENNSYLVANIA AVENUE, N.W.  
SUITE 800  
WASHINGTON, DC 20037

EXAMINER

SHAPIRO, LEONID

ART UNIT

PAPER NUMBER

2629

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
--	-----------	---------------

3 MONTHS

12/22/2006

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/717,469	HA ET AL.	
	Examiner	Art Unit	
	Leonid Shapiro	2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 21 November 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-49 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7, 9-33 and 36-49 is/are rejected.
- 7) ☒ Claim(s) 8, 34 and 35 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

***Claim Objections***

1. Claims 36 and 38 are the same.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-7,22-23,26-33,49 are rejected under 35 U.S.C. 102(b) as being anticipated by Kazuto (JP 08-032461 A).

As to claim 1, Kazuto teaches an extensible type universal remote control (paragraph 0001) comprising:

a basic unit (drawing 1, item 1, paragraph 0014), said basic unit comprising:

a key input section comprising common input selection buttons commonly used for controlling multiple pieces of electronic equipment (drawings 1-2, item 1, paragraphs 0014-0015);

a remote-control signal transmitting section for transmitting a relevant equipment key code to a relevant piece of electronic equipment, said relevant key code generated according to a selected value of one of said common input selection buttons or a selected value of a specific input selection button arranged outside of said basic unit (drawings 1-2, items 1-6, paragraphs 0016-0017); and

Art Unit: 2629

an extension connection terminal portion comprising a data line for receiving the relevant key code when generated by said specific input selection button arranged outside of said basic unit (drawings 3-4, paragraphs 0018-0019).

As to claim 2,27 Kazuto teaches an additional unit (drawing 1, item 2), said additional unit comprising:

a key input section comprising the specific input selection button, which is exclusively used for controlling specific pieces of electronic equipment (paragraph 0017); and

an extension connection terminal portion detachably connected to the extension connection terminal portion of the basic unit (drawings 1-2, items 1-2) and comprising data lines for transmitting the relevant key code, generated according to the selected value of the specific input selection buttons of the additional unit, to the basic unit (drawings 3-4, paragraphs 0013).

As to claims 3,28-29 Kazuto teaches each of the extension connection terminal portions of the basic and additional units comprises a data connector formed with the data lines and a power connector formed with power lines (paragraphs 0007, 0009).

As to claims 4-7,30-33 Kazuto teaches a memory section in which information on the relevant equipment key codes of the input selection buttons of the basic and additional units is stored (drawing 1, item 3, paragraph 0014);

a remote-control control section for extracting the relevant equipment key code from the memory section according to the selected value of the input selection button

Art Unit: 2629

selected from the key input section of the basic unit and transmitting the extracted key code to the remote-control signal transmitting section (drawing 1, items 1-6, paragraph 0014);

a comparison/determination section for comparing the relevant equipment key codes stored in the memory section with the key code input from the additional unit and determining the relevant equipment key code (drawing 1, item 5, paragraph 0014); and

a mode setting section for automatically changing an equipment mode of the basic unit to an equipment mode corresponding to the additional unit in accordance with the determination result of the comparison/determination section (drawings 1-2, item 1-6, paragraphs 0013-0019).

As to claims 22,49 Kazuto teaches a power button and a channel button (paragraph 0016).

As to claim 23, Kazuto teaches a method of operating an extensible type universal remote control (paragraph 0001) comprising a

basic unit and an additional unit (drawing 1, items 1-2), comprising the steps of:

connecting the additional unit to the basic unit (drawing 2);

selecting a specific input selection button disposed on the additional unit; and

transmitting information on a relevant key code, which is generated according to a selected value of the selected specific input selection button, to a relevant piece of equipment through a remote-control signal transmitting section of the basic unit

(drawings 1-2, items 1-6, paragraphs 0016-0019).

Art Unit: 2629

As to claim 26, Kazuto teaches an extensible type universal remote control (paragraph 0001) comprising an additional unit (drawing 1, item 2, paragraph 0014), said additional unit comprising:

a key input section comprising common input selection buttons commonly used for controlling multiple pieces of electronic equipment (drawings 1-2, item 2, paragraphs 0014-0015);

extension connection terminal means for transmitting a relevant key code according to a selected value of one of said common input selection buttons or a selected value of a specific input selection button arranged outside of said basic unit (drawings 1-2, items 1-6, paragraphs 0016-0017); and

wherein said extension connection terminal means is detachably connected to said extension connection terminal means of said basic unit (drawings 3-4, paragraphs 0018-0019).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claim 24-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kazuto.

Kazuto teaches a method of operating an extensible type universal remote control (paragraph 0001) comprising a basic unit and an additional unit (drawing 1, items 1-2), comprising the steps of:

connecting or detecting if the additional unit is connected to the basic unit (drawing 2) and selecting a specific button among input selection buttons of the additional unit by a user (paragraph 0017);

transmitting an arbitrary key code from the additional unit to a comparison/determination section of the basic unit (drawings 1-2, items 1-6, paragraphs 0017);

automatically changing an equipment mode of the basic unit to an equipment mode corresponding to the arbitrary key code in accordance with the determination result of the comparison/determination section (drawings 1-2, items 1-6, paragraphs 0014-0019).

Kazuto teaches the key distinction section (drawing 1, item 5 paragraph 0014) and process of the brightness adjustment (paragraph 0017).

Kazuto does not disclose comparing information on the arbitrary key code transmitted from the additional unit with information on respective equipment key codes stored in a memory section of the basic unit and determining the arbitrary key code by the comparison/determination section.

It would have been obvious to one ordinary skill in the art at the time of the invention comparing information on the arbitrary key code transmitted from the additional unit with information on respective equipment key codes stored in a memory

Art Unit: 2629

section of the basic unit and determining the arbitrary key code by the comparison/determination section in order to operate the extended key unit (paragraph 0001).

4. Claims 9-21,36-48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kazuto as applied to claims 1-2,4,7,26,29,33 above, and further in view of Kobayashi (US 6,738,047 B2).

As to claims 9-12,36-39 Kazuto does not disclose upgrade terminal is provided on a side of the basic unit so that data downloaded through the upgrade terminal can be transmitted to a memory section of the basic unit, thereby upgrading information in the memory section of the basic unit.

Kobayashi teaches upgrade terminal is provided on a side of the basic unit (fig.1, items 1-2) so that data downloaded through the upgrade terminal can be transmitted to a memory section of the basic unit, thereby upgrading information in the memory section of the basic unit (fig.5, items 5,8) col. 5, lines 61-66).

It would have been obvious to one ordinary skill in the art at the time of the invention to incorporate teachings of Kobayashi into Kazuto system in order to enable prompt and easy operation (col. 2, lines 12-14 in Kobayashi reference).

As to claims 13-16,40-43 Kobayashi teaches upgrade terminal is an external equipment connection terminal to be connected to external equipment so that the data can be downloaded therethrough (fig.1, items 1-2, col. 9, lines 21-27).



As to claims 17-20,44-47 Kobayashi teaches upgrade terminal is a storage medium mounting terminal for allowing the data to be downloaded from a storage medium mounted thereon. (fig.1, items 1-2).

As to claims 21,48 Kobayashi teaches basic unit further comprising an LCD window, for displaying status information, arranged at an upper portion of a front face thereof (fig.1, item 1c, col. 4, lines 29-36).

#### ***Allowable Subject Matter***

5. Claim 8,34-35 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The major difference between the teaching of the prior art of record (Kazuto, Kobayashi) and the instant invention is that a plurality of additional units, and each of the additional units has an extension connection terminal receiving portion formed with data lines for receiving relevant key codes input from the other additional units, and the other additional units are consecutively connected in series or parallel to the additional unit connected to the basic unit.

#### ***Telephone Inquire***


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonid Shapiro whose telephone number is 571-272-7683. The examiner can normally be reached on 8 a.m. to 5 p.m..

Art Unit: 2629

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LS  
12.19.06



**RICHARD HJERPE**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2600**